

PROCESS FOR GENERATING AND SEPARATING A HYDROGEN-CARBON
MONOXIDE MIXTURE BY CRYOGENIC DISTILLATION

ABSTRACT

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In a process for generating and separating a syngas,
a syngas (15) containing less than 2.3% methane is
generated from a feed gas, the syngas containing hydrogen
and carbon monoxide is purified by at least one treatment
10 process in order to produce a purified syngas, and the
syngas is separated by cryogenic distillation in a plant
(25) comprising at least one methane scrubbing column (29)
in order to produce a hydrogen-enriched gas and/or a
carbon-monoxide-enriched gas, and the syngas is enriched
15 upstream of the cryogenic distillation separation in order
to obtain a syngas comprising more than 2.3% methane by
sending a portion (11) of the feed gas to a treatment
process downstream of the syngas generation step, without
passing via the syngas generation unit.

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Figure 1